

CLAIMS

1. Variable-speed gearbox with a main transmission (2) arranged in a housing (30) and a downstream range-change transmission (32), such that the range-change transmission (32) has power distribution on two countershafts (12, 14) and a gear wheel (6) is arranged radially movably on a main shaft (4) of the main transmission (2), which meshes in each case with a first gear wheel (8, 10) respectively on one of the countershafts (12, 14), and in the housing (30) is arranged a radially and axially fixed drive output shaft (22) with which is connected a gear wheel (20) that meshes in each case with a second gear wheel (16, 18) respectively on the countershafts (12, 14), characterized in that the gear wheel (6) which meshes with the said first gear wheels (8, 10) of the countershafts (12, 14) is maintained on the main shaft (4) in its axial position relative to the drive output shaft (22) by means of pressure combs (50, 52, 54, 56).
2. Variable-speed gearbox according to claim 1, characterized in that the countershafts (12, 14) are maintained in their axial position relative to the drive output shaft (22) by means of pressure combs (50, 52).
3. Variable-speed gearbox according to claims 1 or 2, characterized in that the gear wheel (20) on the drive output shaft (22) has pressure combs (50, 52) which are in contact with pressure combs formed on the said second gear wheels (16, 18) of the countershafts (12, 14) in order to take up axial forces, and the gear wheel (6) on the main shaft (4) has pressure combs (54, 56) which are in contact with pressure combs formed on the said first gear wheels (8, 10) of the countershafts (12, 14) in order to take up axial forces.
4. Variable-speed gearbox according to any of claims 1 to 3, characterized in that the drive output shaft (22) is held radially and axially in the housing (30) by means of double conical-roller bearings (26, 28).
5. Variable-speed gearbox according to any of claims 1 to 4, characterized in that the countershafts (12, 14) have only a radial mounting (34, 36, 38, 40) in the housing (30).
6. Variable-speed gearbox according to claim 5, characterized in that the radial mounting comprises roller bearings (34, 36, 38, 40).